

Sequence Listing

<110> Gao, Wei-Qiang
Polakis, Paul
Shou, Jianyong
Smith, Victoria
Soriano, Robert
Williams, P. Mickey
Wu, Thomas D.
Zhang, Zemin

<120> COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
TREATMENT OF TUMOR

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Variable	Mean	Standard Deviation	Minimum	Maximum	Skewness	Kurtosis	Jarque-Bera	Probability
Age	35.5	10.5	20	55	-0.1	3.0	0.00	0.99
Gender	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Married	0.7	0.5	0	1	0.0	3.0	0.00	0.99
Children	1.5	1.0	0	4	0.0	3.0	0.00	0.99
Religion	1.0	0.8	0	4	0.0	3.0	0.00	0.99
Education	12.5	2.5	8	16	0.0	3.0	0.00	0.99
Income	10.0	5.0	5	20	0.0	3.0	0.00	0.99
Health	1.0	0.8	0	4	0.0	3.0	0.00	0.99
Assets	1.0	0.8	0	4	0.0	3.0	0.00	0.99
Liabilities	1.0	0.8	0	4	0.0	3.0	0.00	0.99
Net Worth	1.0	0.8	0	4	0.0	3.0	0.00	0.99
Debt Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Equity Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Capital Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Debt to Equity Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Capital Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Equity to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Capital to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Equity to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Capital to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Debt to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Equity to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Capital to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Debt to Equity Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Capital Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Equity to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Capital to Net Worth Ratio	1.0	1.0	0	2	0.0	3.0	0.00	0.99
Debt to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Equity to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Capital to Assets Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Debt to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Equity to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99
Capital to Liabilities Ratio	0.5	0.5	0	1	0.0	3.0	0.00	0.99

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His	Ile	His	Tyr	Thr	Gly	Ser	Leu	Val	Asp	Gly	Arg	Ile	Ile	Asp
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Lys	Arg	Gly	Phe	Pro	Pro	Ser	Val	Pro	Ala	Asp	Ala	Val	Val	Gln	
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Lys	Leu	Val	Lys	Gly	Ile	Leu	Pro	Leu	Val	Gly	Met	Ala	Met	Val	
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Ala Pro Pro Arg Ala Thr Thr Thr Thr	Ala Asn Thr Ala Pro Ala	
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35	40 45
Asp Thr Ser Glu Glu Ala Leu Leu Leu	Pro Asp Trp Leu Lys Leu
50	55 60
Arg Met Ile Arg Ser Glu Val Leu Arg	Leu Val Asp Ala Ala Leu
65	70 75
Gln Asp Leu Glu Pro Gln Gln Leu Leu	Leu Phe Val Gln Ser Phe
80	85 90
Gly Ile Pro Val Ser Ser Met Ser Lys	Leu Leu Gln Phe Leu Asp
95	100 105
Gln Ala Val Ala His Asp Pro Gln Thr	Leu Glu Gln Asn Ile Met
110	115 120
Asp Lys Asn Tyr Met Ala His Leu Val	Glu Val Gln His Glu Arg
125	130 135
Gly Ala Ser Gly Gly Gln Thr Phe His	Ser Leu Leu Thr Ala Ser
140	145 150

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Gln	Leu	Arg	Val	Leu	Gly	Pro	Glu	Asp	Asp	Leu	Ala	Gly	Met	Phe	185	190	195
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Ser	Pro	Arg	Pro	Val	Ala	Leu	Ala	Leu	Gln	Gln	Ala	Leu	Gly	Gln	215	220	225
Glu	Leu	Ala	Arg	Val	Val	Gln	Gly	Ser	Pro	Glu	Val	Pro	Gly	Ile	230	235	240
Thr	Val	Arg	Val	Leu	Gln	Ala	Leu	Ala	Thr	Leu	Leu	Ser	Ser	Pro	245	250	255
His	Gly	Gly	Ala	Leu	Val	Met	Ser	Met	His	Arg	Ser	His	Phe	Leu	260	265	270
Ala	Cys	Pro	Leu	Leu	Arg	Gln	Leu	Cys	Gln	Tyr	Gln	Arg	Cys	Val	275	280	285
Pro	Gln	Asp	Thr	Gly	Phe	Ser	Ser	Leu	Phe	Leu	Lys	Val	Leu	Leu	290	295	300
Gln	Met	Leu	Gln	Trp	Leu	Asp	Ser	Pro	Gly	Val	Glu	Gly	Gly	Pro	305	310	315
Leu	Arg	Ala	Gln	Leu	Arg	Met	Leu	Ala	Ser	Gln	Ala	Ser	Ala	Gly	320	325	330
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Ala	Leu	Ala	Phe	Arg	Gln	Asp	Leu	Glu	Val	Val	Ser	Ser	Thr	Val	350	355	360
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Glu	Pro	Asp	Leu	Ile	Ser	Lys	Val	Leu	Gln	Gly	Leu	Ile	Glu	Val	380	385	390
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Val	Val	Ser	Ser	Leu	Leu	Leu	Gln	Glu	Glu	Glu	Pro	Leu	Ala	Gly	425	430	435
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Pro Glu Val Val	Ser Ser Cys Pro Asp	Leu Gln Leu Arg Leu Leu			
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Phe Ser Arg Arg	Lys Gly Lys Gly Gln	Ala Gln Val Pro Ser Phe			
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Arg Pro Tyr Leu	Leu Thr Leu Phe Thr	His Gln Ser Ser Trp Pro			
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Thr Leu His Gln	Cys Ile Arg Val Leu	Leu Gly Lys Ser Arg Glu			
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Gln Arg Phe Asp	Pro Ser Ala Ser Leu	Asp Phe Leu Trp Ala Cys			
	530	535		540	
Ile His Val Pro	Arg Ile Trp Gln Gly	Arg Asp Gln Arg Thr Pro			
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Gln Lys Arg Arg	Glu Glu Leu Val Leu	Arg Val Gln Gly Pro Glu			
	560	565		570	
Leu Ile Ser Leu	Val Glu Leu Ile Leu	Ala Glu Ala Glu Thr Arg			
	575	580		585	
Ser Gln Asp Gly	Asp Thr Ala Ala Cys	Ser Leu Ile Gln Ala Arg			
	590	595		600	
Leu Pro Leu Leu	Leu Ser Cys Cys Cys	Gly Asp Asp Glu Ser Val			
	605	610		615	
Arg Lys Val Thr	Glu His Leu Ser Gly	Cys Ile Gln Gln Trp Gly			
	620	625		630	
Asp Ser Val Leu	Gly Arg Arg Cys Arg	Asp Leu Leu Leu Gln Leu			
	635	640		645	
Tyr Leu Gln Arg	Pro Glu Leu Arg Val	Pro Val Pro Glu Val Leu			
	650	655		660	
Leu His Ser Glu	Gly Ala Ala Ser Ser	Ser Val Cys Lys Leu Asp			
	665	670		675	
Gly Leu Ile His	Arg Phe Ile Thr Leu	Leu Ala Asp Thr Ser Asp			
	680	685		690	
Ser Arg Ala Leu	Glu Asn Arg Gly Ala	Asp Ala Ser Met Ala Cys			
	695	700		705	
Arg Lys Leu Ala	Val Ala His Pro Leu	Leu Leu Leu Arg His Leu			
	710	715		720	
Pro Met Ile Ala	Ala Leu Leu His Gly	Arg Thr His Leu Asn Phe			
	725	730		735	

Gln	Glu	Phe	Arg	Gln	Gln	Asn	His	Leu	Ser	Cys	Phe	Leu	His	Val	740	745	750
Leu	Gly	Leu	Leu	Glu	Leu	Leu	Gln	Pro	His	Val	Phe	Arg	Ser	Glu	755	760	765
His	Gln	Gly	Ala	Leu	Trp	Asp	Cys	Leu	Leu	Ser	Phe	Ile	Arg	Leu	770	775	780
Leu	Leu	Asn	Tyr	Arg	Lys	Ser	Ser	Arg	His	Leu	Ala	Ala	Phe	Ile	785	790	795
Asn	Lys	Phe	Val	Gln	Phe	Ile	His	Lys	Tyr	Ile	Thr	Tyr	Asn	Ala	800	805	810
Pro	Ala	Ala	Ile	Ser	Phe	Leu	Gln	Lys	His	Ala	Asp	Pro	Leu	His	815	820	825
Asp	Leu	Ser	Phe	Asp	Asn	Ser	Asp	Leu	Val	Met	Leu	Lys	Ser	Leu	830	835	840
Leu	Ala	Gly	Leu	Ser	Leu	Pro	Ser	Arg	Asp	Asp	Arg	Thr	Asp	Arg	845	850	855
Gly	Leu	Asp	Glu	Glu	Gly	Glu	Glu	Glu	Ser	Ser	Ala	Gly	Ser	Leu	860	865	870
Pro	Leu	Val	Ser	Val	Ser	Leu	Phe	Thr	Pro	Leu	Thr	Ala	Ala	Glu	875	880	885
Met	Ala	Pro	Tyr	Met	Lys	Arg	Leu	Ser	Arg	Gly	Gln	Thr	Val	Glu	890	895	900
Asp	Leu	Leu	Glu	Val	Leu	Ser	Asp	Ile	Asp	Glu	Met	Ser	Arg	Arg	905	910	915
Arg	Pro	Glu	Ile	Leu	Ser	Phe	Phe	Ser	Thr	Asn	Leu	Gln	Arg	Leu	920	925	930
Met	Ser	Ser	Ala	Glu	Glu	Cys	Cys	Arg	Asn	Leu	Ala	Phe	Ser	Leu	935	940	945
Ala	Leu	Arg	Ser	Met	Gln	Asn	Ser	Pro	Ser	Ile	Ala	Ala	Ala	Phe	950	955	960
Leu	Pro	Thr	Phe	Met	Tyr	Cys	Leu	Gly	Ser	Gln	Asp	Phe	Glu	Val	965	970	975
Val	Gln	Thr	Ala	Leu	Arg	Asn	Leu	Pro	Glu	Tyr	Ala	Leu	Leu	Cys	980	985	990
Gln	Glu	His	Ala	Ala	Val	Leu	Leu	His	Arg	Ala	Phe	Leu	Val	Gly	995	1000	1005
Met	Tyr	Gly	Gln	Met	Asp	Pro	Ser	Ala	Gln	Ile	Ser	Glu	Ala	Leu	1010	1015	1020
Arg	Ile	Leu	His	Met	Glu	Ala	Val	Met									

<210> 8

<211> 282

<212> PRT

<213> Homo Sapien

<400> 8

Met	Ala	Ser	Leu	Gly	Gln	Ile	Leu	Phe	Trp	Ser	Ile	Ile	Ser	Ile	1	5	10	15
Ile	Ile	Ile	Leu	Ala	Gly	Ala	Ile	Ala	Leu	Ile	Ile	Gly	Phe	Gly	20	25	30	
Ile	Ser	Gly	Arg	His	Ser	Ile	Thr	Val	Thr	Thr	Val	Ala	Ser	Ala	35	40	45	
Gly	Asn	Ile	Gly	Glu	Asp	Gly	Ile	Leu	Ser	Cys	Thr	Phe	Glu	Pro	50	55	60	
Asp	Ile	Lys	Leu	Ser	Asp	Ile	Val	Ile	Gln	Trp	Leu	Lys	Glu	Gly	65	70	75	
Val	Leu	Gly	Leu	Val	His	Glu	Phe	Lys	Glu	Gly	Lys	Asp	Glu	Leu	80	85	90	
Ser	Glu	Gln	Asp	Glu	Met	Phe	Arg	Gly	Arg	Thr	Ala	Val	Phe	Ala	95	100	105	
Asp	Gln	Val	Ile	Val	Gly	Asn	Ala	Ser	Leu	Arg	Leu	Lys	Asn	Val	110	115	120	
Gln	Leu	Thr	Asp	Ala	Gly	Thr	Tyr	Lys	Cys	Tyr	Ile	Ile	Thr	Ser	125	130	135	
Lys	Gly	Lys	Gly	Asn	Ala	Asn	Leu	Glu	Tyr	Lys	Thr	Gly	Ala	Phe	140	145	150	
Ser	Met	Pro	Glu	Val	Asn	Val	Asp	Tyr	Asn	Ala	Ser	Ser	Glu	Thr	155	160	165	
Leu	Arg	Cys	Glu	Ala	Pro	Arg	Trp	Phe	Pro	Gln	Pro	Thr	Val	Val	170	175	180	
Trp	Ala	Ser	Gln	Val	Asp	Gln	Gly	Ala	Asn	Phe	Ser	Glu	Val	Ser	185	190	195	
Asn	Thr	Ser	Phe	Glu	Leu	Asn	Ser	Glu	Asn	Val	Thr	Met	Lys	Val	200	205	210	
Val	Ser	Val	Leu	Tyr	Asn	Val	Thr	Ile	Asn	Asn	Thr	Tyr	Ser	Cys	215	220	225	
Met	Ile	Glu	Asn	Asp	Ile	Ala	Lys	Ala	Thr	Gly	Asp	Ile	Lys	Val	230	235	240	
Thr	Glu	Ser	Glu	Ile	Lys	Arg	Arg	Ser	His	Leu	Gln	Leu	Leu	Asn	245	250	255	

Ser	Lys	Ala	Ser	Leu	Cys	Val	Ser	Ser	Phe	Phe	Ala	Ile	Ser	Trp
				260					265					270
Ala	Leu	Leu	Pro	Leu	Ser	Pro	Tyr	Leu	Met	Leu	Lys			
				275					280					